S1 Physics Unit 2: Energy and Heat - Learning Outcomes

Heat and Energy			
Energy			
I can name several types of energy.			
I can state the law of conservation of energy.			
Heat			
I can describe the difference between heat and temperature.			
I can describe how particles are organised in solids, liquids and gases.			
I can state examples of good heat conductors.			
I can state examples of heat conductors.			
I can state examples of heat insulators.			
I can state that heat travels by convection in liquids and gases.			
I can describe that convection is the rising of hot particles and the falling of cold particles.			
I can state that heat travels by radiation through free space.			
I can describe that radiation is the transfer of heat using invisible waves.			
I can state that heat insulation can be used to reduce heat loss by radiation.			
I can state examples of insulators.			
I can state that heat insulation can reduce heat losses in the home.			
I can describe methods of reducing heat loss from a house			
Energy generation			
I can describe the advantages and disadvantages of various forms of energy generation.			
I can describe the advantages and disadvantages of using solar cells to generate electricity.			
I can describe the effect of the number of solar cells on the amount of electricity generated by a collection of solar cells.			
I can describe the effect of light level on the amount of electricity generated by a collection of solar cells.			
I can use my understanding of electricity generation to design an energy solution for an imaginary island.			